CAG AGT TTT TGA CAC GAA-3'; Chimera 3; SEQ ID NO: 8: 5'-GTG GGA CGA GCA AAT GTA TCT TCC TTT TGC-3 '). The 3' region *(Petunia DFR* portion) of each chimeric gene was synthesized from the *Petunia DFRA* cDNA clone using a primer complementary to the three conserved regions (Chimera 1; SEQ ID NO: 9: 5'- TTC ACT TCA TCT GCT GGA ACT CTC GAT GTG; Chimera 2; SEQ ID NO: 10: 5'-CTG GCA GAG AAA GCC GCA ATG GAA GAA GCT-3'; Chimera 3; SEQ ID NO: 11: 5'-ATT TGC TCG TCC CAC CAT GCT ATC ATC TAC-3') and a primer containing the stop codon of the *Petunia DFRA* gene (SEQ ID NO: 12): [(]5'-GCG CTA GAC TTC AAC ATT GCT T AA-3 '[)]. 5' and 3' regions were gel purified after PCR amplification. To assemble the full length chimeric gene the 5' and 3' region fragments were added to the same tube in roughly equal amounts and subjected to PCR cycles (94°C 30", 55°C 30", 72°C 1 :30). Full-length chimeric genes (-1.1 kb) were purified from agarose gels. The chimeric genes were cloned into a vector containing the 35S CaMV promoter and NOS terminator. *Pfu* polymerase (Stratagene, La Jolla, CA) was used for all PCR reactions.--

REMARKS

The present case is a Divisional Application of Ser No.09/638,715. The original claims 1-22 have been canceled and new claims 22-25 are pending. Claims 22-25 correspond to the claims in Group III (Claims 18-20) of the parent case.

The specification as amended complies with requirements for a sequence listing under 1.821-1.825. A paper copy of the sequence listing is enclosed. A request under 1.821(e) to use the computer readable disk from the parent case accompanies this application. A copy of the declaration and power of attorney from the parent case has been enclosed as provided by 37 C.F.R. § 1.64(d)(1)(ii).

Respectfully submitted,
Mathews, Collins, Shepherd & McKay, P.A.

By: Brian L. Buckwalter
Registration No. 46,585
Agent for Applicants

January 30, 2002
100 Thanet Circle, Suite 306
Princeton, NJ 08540-3662
Telephone 609-924-8555
Telecopier 609-924-3036